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## Type specimens of Phthiraptera in the collection of Jadwiga ZŁOTORZYCKA preserved in the Museum of Natural History, University of Wrocław

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**ABSTRACT.** The Phthiraptera type specimen collection of Jadwiga ZŁOTORZYCKA preserved in the Museum of Natural History, University of Wrocław, consists of 88 holotypes, one neotype and 628 paratypes (total 717 specimens) of 124 species and subspecies of Amblycera and Ischnocera. Details of each taxon and type specimen are listed, including the original combination and current status, museum catalogue number and collecting localities. The contribution of ZŁOTORZYCKA to the knowledge of Phthiraptera is discussed.

**Key words:** ZŁOTORZYCKA, Insecta, Phthiraptera, Mallophaga, type collection, Wrocław University, Poland.

### INTRODUCTION

Jadwiga ZŁOTORZYCKA (1926–2002) was born in Warsaw, but her family soon moved to Lviv, and in 1945 ZŁOTORZYCKA returned to Poland to study biology in the University of Wrocław. Already during her student years she assisted Jan KINEL in the restoration of what remained of the collections of the Zoological Museum (currently Museum of Natural History, University of Wrocław (MNHW)), damaged or scattered during WWII. Her MSc thesis was focused on cuckoo wasps (Hymenoptera: Chrysidae) and was supervised by Jan NOSKIEWICZ. In 1950 ZŁOTORZYCKA was employed in the Museum, at that time headed by prof. Janina JANISZEWSKA, a renowned parasitologist. It was apparently JANISZEWSKA's influence that decided about the future scientific career of ZŁOTORZYCKA. She changed her research focus from Hymenoptera to chewing lice (at that time a separate order Mallophaga) and this group became the subject of

her PhD thesis. ZŁOTORZYCKA soon became a specialist in taxonomy, morphology and ecology of mallophagan lice. She has been working in MNHW for 10 years, and in 1960, together with prof. JANISZEWSKA, moved to a newly established Department of General Parasitology, which she headed from 1972.

In 1956–2001 ZŁOTORZYCKA published 99 papers on Mallophaga. Among others, mainly taxonomic works, one can find important contributions to the fauna of Poland. She published a series of identification keys to the Mallophaga of Poland (ZŁOTORZYCKA 1972bc, 1976, 1977, 1978, 1980), a catalogue (ZŁOTORZYCKA & MODRZEJEWSKA 1988) and a monograph (ZŁOTORZYCKA 1994, 1997, ZŁOTORZYCKA & MODRZEJEWSKA 2001), all written in Polish and therefore little known worldwide. Her bibliography and further details of academic and scientific career can be found in LONC (1998), and complete biography in OKULEWICZ (2003).

The contributions of Jadwiga ZŁOTORZYCKA to phthirapteran study are substantial, but of varying quality. A considerable portion of her work was devoted to two closely related aspects: large-scale revisions of complicated groups of lice (particularly those on songbirds (ZŁOTORZYCKA 1964a–c, 1965) and shorebirds (ZŁOTORZYCKA 1967)), and research into the relationships between hosts as revealed by the distribution and relationships of lice. While some of her early papers (*e.g.*, ZŁOTORZYCKA 1968bc) show an earnest desire to untangle some of the more complicated matters in louse research, her study was hampered by lack of material, particularly from outside of Central Europe. This naturally limited the scope of her conclusions. In addition, her cooperation with Wolfdietrich EICHLER in East Germany meant that his sometimes rigid adherence to FAHRENHOLZ' rule (see KLASSEN (1982) for an introduction to this rule) influenced her taxonomic contributions. Following EICHLER, ZŁOTORZYCKA's species are typically described mainly on the basis of host relationships, and references to morphological characters are usually vague or hard to assess. Most of her descriptions are short and uninformative, often based on only a few individuals. This may become problematic as in small samples individual variation sometimes becomes dominant, while having little taxonomic value. As a result, the characters she used to differentiate her taxa are often vague and inadequate, her illustrations are typically schematic, and can seldom be used to identify species without reference to the type slides. Today, many of the species names she established are considered junior synonyms or, at least, the species are treated as impossible to differentiate based solely on original descriptions (PRICE *et al.* 2003, and see below). The well-preserved collection of ZŁOTORZYCKA is all the more valuable today and especially the numerous type specimens, recently organized, catalogued and made available for specialists, await proper examination.

The Phthiraptera collection of ZŁOTORZYCKA is preserved in MNHW. It comprises a large and still only preliminarily surveyed non-type specimen collection and a separate type specimen collection. The microscope slides of the type collection (Fig. 1), originally kept on cardboard trays (Fig. 2), have been transferred to plastic slide boxes and all specimens with respective label and bibliographic data are now included in the MNHW electronic databases. The type collection consists of 88 holotypes, one neotype and 628 paratypes (total 717 specimens) of 124 species and subspecies of Mallophaga (54 species of Amblycera and 70 Ischnocera). Most of the species were described by



1. Examples of microscope slides in the ZŁOTORZYCKA Collection of type specimens

ZŁOTORZYCKA or EICHLER & ZŁOTORZYCKA (Figs 3-12), but some specimens come from collections of LUCIŃSKA, MEY, CARRIKER JR., EICHLER, PRICE and EMERSON.

The type specimens listed in this catalogue were identified on the basis of the microscope slide label data and confirmed by comparing with slide numbers and additional data published in original descriptions. The species are listed in an alphabetical order (in each family), and the following data, when available, are given: the species name as it appears on the microscope slide, author of the name and the page on which it has been described; the status of type specimens (holotype, neotype, allotype, paratype) and their sex or developmental stage (male - [m], female - [f], larva - [l]); the microscope slide (MS) number as it appears on the slide; collecting locality/circumstances, including the host; the MNHW database number (MNHW No); the valid combination currently accepted for this species (if different from the name used in the slide label, following PRICE *et al.* (2003)); optionally additional remarks.

#### CHECKLIST OF THE TYPE SPECIMENS OF MALLOPHAGA IN THE ZŁOTORZYCKA COLLECTION

##### Suborder Amblycera

##### Family Gyropidae

*Abrocomophaga chilensis* EMERSON & PRICE, 1976: 426; 2 paratypes [mf]; Santiago, Chile; ex *Abrocoma benetti* WATERHOUSE; MNHW No 708.

*Gliricola venezuelanus* EMERSON & PRICE 1975: 18; 2 paratypes [mf]; Capibara, Venezuela; ex *Proechimys semispinosus* TOMES; MNHW No 755.

##### Family Laemobothriidae

*Laemobothrion vulturis daneckii* ZŁOTORZYCKA, 1969: 125; holotype MS No 28/xx/152 [m], 67 paratypes [mf]; Wrocław, Poland, leg. DANECKI; ex *Gypaetus barbatus* (L.); MNHW No 767; current status: *Laemobothrion vulturis* (FABRICIUS, 1775).

##### Family Menoponidae

*Aegypiphilus contrastus* EICHLER & ZŁOTORZYCKA, 1963a: 216; holotype MS No 29/F/26 [f], 1 paratype [f]; 20 km N Meiktila, Burma; ex *Pseudogyps bengalensis* (GM.) (museum skin specimen); MNHW No 709; current status: *Cuculiphilus (Aegypiphilus) gypsis* (EICHLER, 1944).

*Aegypiphilus secundus* EICHLER & ZŁOTORZYCKA, 1963a: 217; holotype MS No 29/H/10 [m]; Ndjiri, Africa, leg. SCHILLINGS; ex *Gyps rueppelli* (BREHM) (museum skin specimen); MNHW No 710; current status: *Cuculiphilus (Aegypiphilus) gypsis* (EICHLER, 1944).

*Allocolpocephalum laniidorum* ZŁOTORZYCKA, 1964a: 188; holotype MS No 15/d/4-4 [f], 2 paratypes [f]; Wrocław, Poland, leg. ZŁOTORZYCKA; ex *Lanius excubior* L.; MNHW No 712; current status: *Colpocephalum fregili* DENNY, 1842.

*Amyrsidea obstinata* ZŁOTORZYCKA, 1972a: 583; holotype MS No 32/e/23-1 [m], 42 paratypes [mf]; Wizna, Łomża, Poland, leg. NOSKIEWICZ (holotype, 15 paratypes), Bychawa, Poland, leg. DERYŁO (6 paratypes), Kraśnik, Poland, leg. DERYŁO (7 paratypes), Janów Lubelski, Poland, leg. DERYŁO (2 paratypes), Lubelskie Voivodship, Poland, leg. DERYŁO (12 paratypes); ex *Lyrurus tetrax* (L.); MNHW No 713; current status: *Amyrsidea lagopi* (GRUBE, 1851).



*Austromenopon caspiae* ZŁOTORZYCKA, 1968a: 311; holotype MS No 43/e/73 [m], 12 paratypes [mf]; Hodonin, Czech Republic, leg. BALÁT (holotype and 7 paratypes), Mikoszewo, Poland, leg. ZAJĄC (5 paratypes); ex *Hydropogne caspia* (PALL.); MNHW No 720; current status: *Austromenopon atrofulvum* (PIAGET, 1880).



2. An original tray with microscope slides in the ZŁOTORZYCKA Collection (all slides have been recently transferred to plastic boxes)

*Austromenopon decorosum decorosum* ZŁOTORZYCKA, 1968a: 323; holotype MS No 42/p/5 [m], 9 paratypes [mf]; Mikoszewo, Poland, leg. ZAJĄC; ex *Tringa totanus* (L.); MNHW No 721.

*Austromenopon decorosum finitimum* ZŁOTORZYCKA, 1968a: 325; holotype MS No 42/r/7-2 [f], 1 paratype [f]; Sominy, Poland, leg. ZŁOTORZYCKA; ex *Tringa erythropus* (PALL.); MNHW No 722; current status: *Austromenopon decorosum* ZŁOTORZYCKA, 1968.

*Austromenopon erilis* ZŁOTORZYCKA, 1968a: 325; holotype MS No 42/ab/61 [m], 2 paratypes [f]; Górki Wschodnie, Poland, leg. ZAJĄC; ex *Calidris maritima* (BRÜNN.); MNHW No 723; current status: *Austromenopon erilis* ZŁOTORZYCKA, 1968.

*Austromenopon hystriculum* ZŁOTORZYCKA, 1968a: 326; holotype MS No 42/w/45 [f]; Mikoszewo, Poland, leg. ZAJĄC; ex *Tringa hypoleucos* L.; MNHW No 724.

*Austromenopon icterum* (BURMEISTER, 1838: 440); neotype MS No 42/j/1-1 [m]; designated by ZŁOTORZYCKA, 1968a: 331; Kotowice, Poland, leg. ZŁOTORZYCKA; ex *Scolopax rusticola* (L.); MNHW No 725.

*Austromenopon nigropleurum volucer* ZŁOTORZYCKA, 1968a: 318; holotype MS No 50/F/1 [m]; Bear Island (Bjørnøya), Norway, leg. ZŁOTORZYCKA (museum skin specimen); ex *Uria troille* (L.); MNHW No 726; current status: *Austromenopon nigropleurum* (DENNY, 1842).

*Austromenopon putum* ZŁOTORZYCKA, 1968a: 312; holotype MS No 43/a/15 [f]; Sominy, Poland, leg. ZŁOTORZYCKA; ex *Chlidonias nigra* (L.); MNHW No 727; current status: *Austromenopon atrofulvum* (PIAGET, 1880).

*Austromenopon sternophilum paucum* ZŁOTORZYCKA, 1968a: 314; holotype MS No 43/g/12-1 [m], 28 paratypes [mf]; Sominy, Poland, leg. ZŁOTORZYCKA (holotype and 27 paratypes), Mikoszewo, Poland, leg. ZŁOTORZYCKA (1 paratype); ex *Sterna albifrons* PALL.; MNHW No 728; current status: *Austromenopon atrofulvum* (PIAGET, 1880).

*Austromenopon sternophilum piageti* ZŁOTORZYCKA, 1968a: 315; holotype MS No 43/f/8 [m], 7 paratypes [f]; Mikoszewo, Poland, leg. ZAJĄC (1 paratype), Mikoszewo, Poland, leg. ZŁOTORZYCKA (5 paratypes), Mikołajki, Poland, leg. DĄBROWSKI (holotype and 3 paratypes); ex *Sterna hirundo* L.; MNHW No 729; current status: *Austromenopon atrofulvum* (PIAGET, 1880).

*Austromenopon transversum circular* ZŁOTORZYCKA, 1968a: 306; holotype MS No 43/l/22 [f], 2 paratypes [f]; Górki Wschodnie, Poland, leg. ZAJĄC (holotype), Wrocław, Poland, leg. ZŁOTORZYCKA (1 paratype), Dąbie ad Szczecin, Poland, leg. NOSKIEWICZ (1 paratype); ex *Larus canus* L. MNHW No 730; current status: *Austromenopon transversum* (DENNY, 1842).

*Austromenopon transversum comitor* ZŁOTORZYCKA, 1968a: 306; holotype MS No 43/O/78 [f]; Pohorelice, Czech Republic, leg. BALÁT; ex *Larus marinus* L.; MNHW No 731; current status: *Austromenopon transversum* (DENNY, 1842).

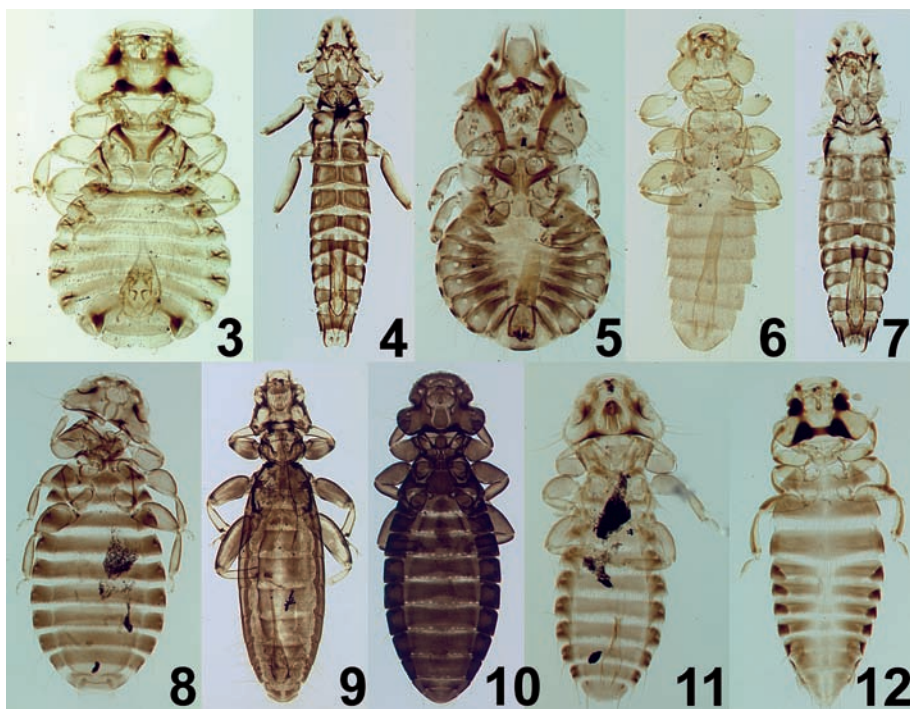
*Austromenopon vanelli* ZŁOTORZYCKA, 1968a: 320; holotype MS No 42/a/30 [m], 1 paratype [f]; Czech Republic, leg. BALÁT (holotype), Górki Wschodnie, Poland, leg. ZŁOTORZYCKA (paratype); ex *Vanellus vanellus* L.; MNHW No 732; current status: *Austromenopon aegialitidis* (DURRANT, 1906).

*Cavifera abdita* CLAY & PRICE, 1970: 337; paratype; Indonesia (New Guinea), Archbold Lake; ex *Otidiphaps nobilis* GOULD; MNHW No 1173.

*Ctenigogus erinaceimorphus* EICHLER & ZŁOTORZYCKA, 1963b: 40; holotype MS No 29/F/1 [m], allotype [f], 2 paratypes [fl]; Manila, Philippines; ex *Pseudogyps bengalensis* (GM.) (museum skin specimen); MNHW No 738.

*Ctenigogus secundarius* EICHLER & ZŁOTORZYCKA, 1963a: 203; holotype MS No 29/G/5 [f]; Dönje Erok, Tanzania, leg. SCHILLINGS; ex *Torgos tracheliotus tracheliotus* (FOSTER) (museum skin specimen); MNHW No 739.

*Eichlerinopon celeripes* ZŁOTORZYCKA, 1964a: 181; holotype MS No 1/c/40-33 [m], 3 paratypes [mf]; Wrocław, Poland, leg. ZŁOTORZYCKA; ex *Corvus frugilegus frugilegus* L.; MNHW No 747; current status: unidentifiable (see CLAY 1966).



3-12. Examples of type specimens in the ZŁOTORZYCKA Collection. *Aegypiphilus secundus* EICHLER & ZŁOTORZYCKA, holotype (= *Cuculiphilus* (*Aegypiphilus*) *gypsis* (EICHLER)) (3), *Falcolipeurus jaczewskii* ZŁOTORZYCKA, holotype (= *Falcolipeurus quadripustulatus* (BURMEISTER)) (4), *Craspedorrhynchus fraterculus* EICHLER & ZŁOTORZYCKA, holotype (5), *Ctenigogus erinaceimorphus* EICHLER & ZŁOTORZYCKA, holotype (6), *Falcolipeurus laboriosus* ZŁOTORZYCKA, holotype (= *Falcolipeurus lineatus* BEDFORD) (7), *Austromenopon putum* ZŁOTORZYCKA, holotype (= *Austromenopon atrofulvum* (PIAGET)) (8), *Laemobothrion vulturis daneckii* ZŁOTORZYCKA, holotype (= *Laemobothrion vulturis* (FABRICIUS)) (9), *Larithophilus negroidalis* ZŁOTORZYCKA, holotype (= *Actornithophilus piceus piceus* (DENNY)) (10), *Pseudomenopon złotorzyckae* LUCIŃSKA, paratypes (= *Pseudomenopon pilosum* (SCOPOLI)) (11), *Vulturigogus femellus* EICHLER & ZŁOTORZYCKA, holotype (= *Colpocephalum turbinatum* DENNY)) (12)



***Gypsigogus novoannus*** EICHLER & ZŁOTORZYCKA, 1963a: 213; holotype MS No 29/D/19 [f], allotype [m]; “Rüttwasteppe”, East Africa; ex *Trigonoceps occipitalis* (BURCH.) (museum skin specimen); MNHW No 756; current status: *Colpocephalum subzebra* BEDFORD, 1939.

***Hirundoecus clayae*** BALÁT, 1966: 20; allotype [m], 1 paratype [f]; Lednice, Czech Republic; ex *Riparia riparia* (L.); MNHW No 772; current status: *Machaerilaemus clayae* (BALÁT, 1966).

***Lanicanthus aequalis*** ZŁOTORZYCKA, 1965: 57; holotype MS No 15/a/20, 15 paratypes [mfl]; Górki Wschodnie, Poland, leg. ZŁOTORZYCKA (holotype, 2 paratypes), Pasłęka, Poland, leg. BUSSE (13 paratypes); ex *Lanius collurio* L.; MNHW No 1165; current status: *Menacanthus camelinus* (NITZSCH in GIEBEL (1874)).

***Lanimenopon abhorrens*** ZŁOTORZYCKA, 1964a: 177; holotype MS No 15/d/12-1 [m], 3 paratypes [fl]; Wrocław, Poland, leg. ZŁOTORZYCKA; ex *Lanius excubitor excubitor* L.; MNHW No 768; current status: *Myrsidea abhorrens* (ZŁOTORZYCKA, 1964). Remarks: in the original description the holotype is mentioned under the specimen number MS No 15/d/2-1.

***Larithophilus negroidalis*** ZŁOTORZYCKA, 1963a: 226; holotype MS No 43/f/47 [f], 1 paratype [l]; Mikoszewo, Poland, leg. ZŁOTORZYCKA; ex *Sterna hirundo hirundo* L.; MNHW No 769; current status: *Actornithophilus piceus piceus* (DENNY, 1842).

***Larithophilus sperabilis*** ZŁOTORZYCKA, 1963a: 227; holotype MS No 43/g/14 [m]; Sominy, Poland; ex *Sterna albifrons* PALL.; MNHW No 770; current status: *Actornithophilus piceus piceus* (DENNY, 1842).

***Liquidea proterva*** ZŁOTORZYCKA, 1964a: 174; holotype MS No 16/a/6 [f]; Żeli-strzewo, Poland, leg. GROMADZKI; ex *Muscicapa striata striata* (PALL.); MNHW No 771; current status: *Myrsidea proterva* (ZŁOTORZYCKA, 1964).

***Menacanthus pius*** EICHLER & ZŁOTORZYCKA, 1963c: 369; holotype MS No 14/11-3 [f], 33 paratypes [fl]; Wrocław, Poland, leg. ZŁOTORZYCKA; ex *Turdus merula* L.; MNHW No 773; current status: *Menacanthus eurysternus* (BURMEISTER, 1838). Remarks: in the original description the holotype is mentioned under the specimen number MS No 14/e/11-1.

***Menacanthus polonicus*** EICHLER & ZŁOTORZYCKA, 1963c: 371; 1 paratype [l]; Wrocław-Opatowice, Poland, leg. ZŁOTORZYCKA; ex *Turdus pilaris* L.; MNHW No 774; current status: *Menacanthus eurysternus* (BURMEISTER, 1838).

***Menacanthus trivialis*** ZŁOTORZYCKA, 1973: 455; holotype [m] MS No 6/a/2, 2 paratypes [f]; Kuřim, Czech Republic, leg. BALÁT; ex *Anthus trivialis* (L.); MNHW No 775; current status: *Menacanthus pusillus* (NITZSCH, 1866).

***Menacanthus verecundus*** ZŁOTORZYCKA, 1965: 54; holotype [f]; Hel, Poland, leg. Busse; ex *Sylvia atricapilla* (L.); MNHW No 1135; current status: *Menacanthus curuccae* (SCHRANK, 1776).

***Menacanthus vistulanus*** EICHLER & ZŁOTORZYCKA, 1963c: 372; holotype MS No 8/a/2 [f]; Skowronki, Poland, leg. ZŁOTORZYCKA; ex *Sylvia borin* (BODD.); MNHW No 776; current status: *Menacanthus curuccae* (SCHRANK, 1776).

***Menacanthus wipszyckii*** EICHLER & ZŁOTORZYCKA, 1963c: 373; holotype MS No 4/h/4 [f]; Wrocław, Poland, leg. ZŁOTORZYCKA; ex *Chloris chloris* L.; MNHW No 777; current status: *Menacanthus eurysternus* (BURMEISTER, 1838).



*Menopon deryloi* ZŁOTORZYCKA, 1972a: 580; holotype MS No 103-3 [m], 5 paratypes [mf]; Makoszka ad Parczew, Poland, leg. DERYŁO; ex *Lyrurus tetrax* (L.); MNHW No 778.

*Myrsidea clayae birmensis* KLOCKENHOFF, 1969: 397; paratypes [f] 3; Songkhla Muang, Thailand; ex *Corvus macrorhynchos leuallantii* LESSON; MNHW No 780; current status: *Myrsidea birmensis* KLOCKENHOFF, 1969.

*Neocolpocephalum gypsi* EICHLER & ZŁOTORZYCKA, 1971: 26; 1 paratype [f]; Czechoslovakia, leg. BALÁT; ex *Gyps fulvus* (HABL.); MNHW No 781; current status: *Colpocephalum gypsi* (EICHLER & ZŁOTORZYCKA, 1971).

*Neocolpocephalum polonum* EICHLER & ZŁOTORZYCKA, 1971: 26; holotype MS No 782 [f]; Ruda Sulowska, Poland, leg. ZŁOTORZYCKA; ex *Accipiter gentilis* (L.); MNHW No 782; current status: *Colpocephalum polonum* (EICHLER & ZŁOTORZYCKA, 1971).

*Neomyrsidella usitata* ZŁOTORZYCKA, 1964a: 184; 12 paratypes [mf]; Wrocław, Poland, leg. ZŁOTORZYCKA; ex *Corvus monedula* (L.); MNHW No 785; current status: *Myrsidea anathorax* (NITZSCH, 1866).

*Pseudomenopon janiszewskae* LUCIŃSKA, 1969: 365; holotype MS No 48/d/4 [f], 1 paratype [f]; Potasznia, Milicz, Poland, leg. JURCZYK; ex *Podiceps auritus* (L.); MNHW No 795; current status: *Pseudomenopon dolium* (RUDOW, 1869).

*Pseudomenopon stuchlyi* LUCIŃSKA, 1969: 364; holotype MS No 48/b/7 [m], 1 paratype [m]; Radziądz, Poland, leg. ZŁOTORZYCKA; ex *Podiceps griseigena* (BODD.); MNHW No 796; current status: *Pseudomenopon dolium* (RUDOW, 1869).

*Pseudomenopon zlotorzyskiae* LUCIŃSKA, 1969: 359; 5 paratypes [mf]; Wrocław-Opatowice, Poland, leg. ZŁOTORZYCKA (2 paratypes), Radziądz, Poland, leg. ZŁOTORZYCKA (2 paratypes), Lednice, Czech Republic, leg. BALÁT (1 paratype); ex *Gallinula chloropus* (L.); MNHW No 797; current status: *Pseudomenopon pilosum* (SCOPOLI, 1763).

*Uchida phasiani* MODRZEJEWSKA & ZŁOTORZYCKA, 1977: 340; 2 paratypes [mf]; Olawa ad Wrocław, Poland, leg. MODRZEJEWSKA; ex *Phasianus colchicus* L.; MNHW No 806; current status: *Menacanthus phasiani* (MODRZEJEWSKA & ZŁOTORZYCKA, 1977).

*Vulturigogus eugenii* EICHLER & ZŁOTORZYCKA, 1963a: 207; holotype MS No 29/F/10 [m], allotype [f], Manila, Philippines (holotype), 20 km N Meiktila, Myanmar (allotype); ex *Pseudogyps bengalensis* (GM.) (museum skin specimens); MNHW No 807; current status: *Colpocephalum turbinatum* DENNY, 1842.

*Vulturigogus femellus* EICHLER & ZŁOTORZYCKA, 1963a: 209; holotype MS No 29/H/18 [f]; Ethiopia; ex *Gyps rueppelli rueppelli* (BREHM) (museum skin specimen); MNHW No 808; current status: *Colpocephalum turbinatum* DENNY, 1842.

#### Family Ricinidae

*Ricinus fringillae aureolae* MEY, 1982: 163; 1 paratype [f]; Tereldsh, Mongolia, leg. E. MEY; ex *Emberiza aureola* (PALL.); MNHW No 1147; current status: *Ricinus fringillae* DE GEER, 1778.

*Ricinus fringillae flavirostris* MEY, 1982: 164; 2 paratypes [mf]; 10 km W. Mjangan, Aimak Chovd, Mongolia, leg. STUBBE (1 paratype), Jolyn am Gobi-Altai Mongolia, leg. E. MEY (1 paratype); ex *Carduelis flavirostris altaica* (SUSH.); MNHW No 1148; current status: *Ricinus fringillae* DE GEER, 1778.

***Ricinus japonicus rheinwaldi*** MEY, 1982: 166; 1 paratype [f]; Jolyn, Gobi-Altai, Mongolia, leg. E. MEY; ex *Anthus spinoletta coutelii* AUD.; MNHW No 1149; current status: *Ricinus fringillae* DE GEER, 1778.

***Ricinus piechockii*** MEY, 1984: 243; 1 paratype [f]; La Mayagna-Guanahacabibes, Cuba; ex *Melopyrrha nigra* (L.); MNHW No 1150.

***Ricinus uragi*** MEY, 1982: 165; 1 paratype [f]; Tereldsh, Mongolia, leg. E. MEY; ex *Uragus sibiricus* (PALL.); MNHW No 1151.

***Trochiloeetes naevius*** ONIKI & EMERSON 1982: 85, 1 paratype [f]; Seta Barras, Brazil; ex *Ramphodon naevius*; MNHW No 803.

### **Suborder Ischnocera**

### **Family Philopteridae**

***Allobrueelia abluda*** ZŁOTORZYCKA, 1964b: 265; holotype MS No 14/a/22 [f], 1 paratype [l]; Hel, Poland, leg. BUSSE; ex *Turdus philomelos* BREHM; MNHW No 711; current status: *Brueelia turdinulae* ANSARI, 1956.

***Anatoecus dentatus castaneus*** ZŁOTORZYCKA, 1970: 24; holotype MS No 44/o/18, 12 paratypes [mf]; Krośnice, Poland, leg. ZŁOTORZYCKA (holotype, 4 paratypes), Wrocław, Poland, leg. ZŁOTORZYCKA (8 paratypes); ex *Anas querquedula* L.; MNHW No 1157; current status: *Anatoecus dentatus* (SCOPOLI, 1763).

***Anatoecus dentatus cognatus*** ZŁOTORZYCKA, 1970: 17; holotype MS No 44/l/d/6 [f], 1 paratype [f]; Świdnica, Poland; ex *Anas platyrhynchos domestica* L. (museum skin specimen); MNHW No 714; current status: *Anatoecus dentatus* (SCOPOLI, 1763).

***Anatoecus dentatus complicatus*** ZŁOTORZYCKA, 1970: 21; holotype MS No 44/n/10 [f], 2 paratypes [mf]; Józefów ad Warszawa, leg. ŚWIRSKI (holotype, 1 paratype), Nysa, Poland (1 paratype) (museum skin specimens); ex *Anas penelope* L.; MNHW No 1155; current status: *Anatoecus dentatus* (SCOPOLI, 1763).

***Anatoecus dentatus gratus*** ZŁOTORZYCKA, 1970: 35; holotype MS No 44/u/2 [f], 1 paratype [f]; Kukle, Poland, leg. ZŁOTORZYCKA (holotype), Górki Wschodnie, Poland, leg. ZAJĄC (paratype); ex *Bucephala clangula* (L.); MNHW No 1161; current status: *Anatoecus dentatus* (SCOPOLI, 1763).

***Anatoecus dentatus longicephalus*** ZŁOTORZYCKA, 1970: 19; holotype MS No 44/m/9, 1 paratype [f]; Przemków, Poland; ex *Anas strepera* L. (museum skin specimen); MNHW No 1153; current status: *Anatoecus dentatus* (SCOPOLI, 1763).

***Anatoecus dentatus magnicornutus*** ZŁOTORZYCKA, 1970: 52; holotype MS No 44/a/1, 19 paratypes [mf]; Kołczewo, Poland, leg. WOLK; ex *Cygnus olor* (GM.); MNHW No 715; current status: *Anatoecus dentatus* (SCOPOLI, 1763).

***Anatoecus dentatus prehensus*** ZŁOTORZYCKA, 1970: 27; holotype MS No 44/ó/5 [m], 2 paratypes [mf]; Zawiercie, Poland, leg. DĄBROWSKI; ex *Anas cracca* L.; MNHW No 1158; current status: *Anatoecus dentatus* (SCOPOLI, 1763).

***Anatoecus icterodes discludus*** ZŁOTORZYCKA, 1970: 15; 6 paratypes [f]; Świdnica, Poland; ex *Anas platyrhynchos domestica* L. (museum skin specimen); MNHW No 716; current status: *Anatoecus icterodes* (NITZSCH, 1818).

***Anatoecus icterodes dissensus*** ZŁOTORZYCKA, 1970: 33; holotype MS No 44/u/9 [m], 9 paratypes [mf]; Górki Wschodnie, Poland, leg. ZAJĄC (holotype), Kukle, Poland, leg. Złotorzycka (paratypes); ex *Bucephala clangula* (L.); MNHW No 1160; current status: *Anatoecus icterodes* (NITZSCH, 1818).

*Anatoecus icterodes eichleri* ZŁOTORZYCKA, 1970: 25; holotype MS No 44/6/10 [m], 28 paratypes [mf]; Zawiercie, Poland, leg. Dąbrowski, Wrocław-Opatowice, Poland, leg. ZŁOTORZYCKA; ex *Anas crecca* L.; MNHW No 717; current status: *Anatoecus icterodes* (NITZSCH, 1818).

*Anatoecus icterodes islandicus* ZŁOTORZYCKA, 1970: 35; holotype MS No 44/Ua/2 [m], 1 paratype [m]; North Iceland; ex *Bucephala islandica* GM. (museum skin specimen); MNHW No 718; current status: *Anatoecus icterodes* (NITZSCH, 1818).

*Anatoecus icterodes oloris* ZŁOTORZYCKA, 1970: 50; holotype MS No 44/a/26 [m], 39 paratypes [mf]; Kołczewo, Poland, leg. WOLK; ex *Cygnus olor* (GM.); MNHW No 719; current status: *Anatoecus icterodes* (NITZSCH, 1818).

*Anatoecus icterodes parvus* ZŁOTORZYCKA, 1970: 22; holotype MS No 44/o/10, 16 paratypes [mf]; Wrocław, Poland, leg. ZŁOTORZYCKA; ex *Anas querquedula* L.; MNHW No 1156; current status: *Anatoecus icterodes* (NITZSCH, 1818).

*Anatoecus icterodes pustulosus* ZŁOTORZYCKA, 1970: 29; holotype MS No 44/t/1 [m]; Lednice, Czech Republic, leg. BALÁT; ex *Netta rufina* (PALL.); MNHW No 1159; current status: *Anatoecus icterodes* (NITZSCH, 1818).

*Anatoecus icterodes simplicatus* ZŁOTORZYCKA, 1970: 20; holotype MS No 44/n/18 [m], 2 paratypes [f]; Nysa, Poland (museum skin specimen) (holotype), Józefów ad Warszawa, Poland, leg. ŚWIRSKI (paratypes); ex *Anas penelope* L.; MNHW No 1154; current status: *Anatoecus icterodes* (NITZSCH, 1818).

*Anatoecus icterodes solivagus* ZŁOTORZYCKA, 1970: 18; holotype MS No 44/m/2 [f]; Sominy, Poland, leg. ZŁOTORZYCKA; ex *Anas strepera* L.; MNHW No 1152; current status: *Anatoecus icterodes* (NITZSCH, 1818).

*Anatoecus icterodes tadornae* ZŁOTORZYCKA, 1970: 48; 2 paratypes [f]; Rogów ad Grodków, Poland; ex *Tadorna tadorna* (L.) (museum skin specimen); MNHW No 1163; current status: *Anatoecus icterodes* (NITZSCH, 1818).

*Anatoecus icterodes tergalis* ZŁOTORZYCKA, 1970: 44; holotype MS No 44/e/1-1 [m], 11 paratypes [mf]; Lublin ad, Poland, leg. WIPSZYCKI (holotype, 9 paratypes), Jurský Šúr, Czech Republic, leg. BALÁT; ex *Anser fabalis* (LATH.); MNHW No 1162; current status: *Anatoecus icterodes* (NITZSCH, 1818).

*Brueelia glizi* BALÁT 1955; 509; 2 paratypes [mf]; Hodonin, Czech Republic, leg. BALÁT; ex *Fringilla montifringilla* L.; MNHW No 734; current status: *Brueelia glizi* BALÁT, 1955.

*Corvonirmus perforatus* ZŁOTORZYCKA, 1964b: 244; holotype MS No 1/c/26-1 [m], 8 paratypes [mf]; Wrocław-Opatowice, Poland, leg. ZŁOTORZYCKA; ex *Corvus frugilegus frugilegus* L.; MNHW No 735; current status: *Brueelia perforata* (ZŁOTORZYCKA, 1964).

*Cotingacola rupicolae colombiana* CARRIKER Jr., 1956: 369; 1 paratype [m]; Moscopan, Cauca, Colombia; ex *Rupicola peruvianus aecuatorialis*; MNHW No 736; current status: *Cotingacola rupicolae* (CARRIKER Jr., 1956).

*Craspedorrhynchus fraterculus* EICHLER & ZŁOTORZYCKA 1975: 155; holotype MS No 28/b/3 [m], allotype [f]; Lednice, Czech Republic, leg. BALÁT; ex *Aquila heliaca*; MNHW No 737.

***Docophorulus capillatus*** ZŁOTORZYCKA, 1964c: 408; holotype MS No 16/b/4 [m], 2 paratypes [mf]; Skowronki, Poland (holotype, 1 paratype) leg. ZŁOTORZYCKA, Hel, Poland (1 paratype) leg. BUSSE; ex *Muscicapa hypoleuca hypoleuca* (PALL.); MNHW No 740; current status: *Philopterus capillatus* (ZŁOTORZYCKA, 1964).

***Docophorulus cumulatus*** ZŁOTORZYCKA, 1964c: 410; holotype MS No 4/y/2-1 [m], 43 paratypes [mf]; Jordanów, Poland, leg. ZŁOTORZYCKA (holotype, 24 paratypes), Wrocław, Poland, leg. ZŁOTORZYCKA (19 paratypes); ex *Emberiza calandra calandra* L.; MNHW No 741; current status: *Philopterus cumulatus* (ZŁOTORZYCKA, 1964).

***Docophorulus desertus*** ZŁOTORZYCKA, 1964c: 412; holotype MS No 16/a/3 [f], 2 paratypes [f,l]; Skowronki, Poland (holotype, 1 paratype), leg. ZŁOTORZYCKA, Zawiercie, Poland (1 paratype), leg. DĄBROWSKI; ex *Muscicapa striata striata* (PALL.); MNHW No 742; current status: *Philopterus desertus* (ZŁOTORZYCKA, 1964).

***Docophorulus fortunatus*** ZŁOTORZYCKA, 1964c: 413; holotype MS No 4/p/6-2 [m], 18 paratypes [f]; Kiełpino, Poland (holotype, 6 paratypes), Wrocław-Opatowice, Poland, leg. ZŁOTORZYCKA (12 paratypes); ex *Fringilla coelebs coelebs* L.; MNHW No 743; current status: *Philopterus fortunatus* (ZŁOTORZYCKA, 1964).

***Docophorulus rapax*** ZŁOTORZYCKA, 1964c: 421; holotype MS No 4/q/1 [m], 3 paratypes [mf]; Hel, Poland, leg. BUSSE; ex *Fringilla montifringilla* L.; MNHW No 744; current status: *Philopterus rapax* (ZŁOTORZYCKA, 1964).

***Docophorulus residuus*** ZŁOTORZYCKA, 1964c: 422; holotype MS No 4/z/1 [f], 1 paratype [l]; Nowa Pasłęka, Braniewo, Poland, leg. BUSSE; ex *Emberiza schoeniclus schoeniclus* (L.); MNHW No 745; current status: *Philopterus residuus* (ZŁOTORZYCKA, 1964).

***Docophorulus vernus*** ZŁOTORZYCKA, 1964c: 424; holotype MS No 14/c/4, 24 paratypes [mf]; Wrocław-Opatowice, Poland, leg. ZŁOTORZYCKA; ex *Turdus viscivorus viscivorus* L.; MNHW No 746; current status: *Philopterus vernus* (ZŁOTORZYCKA, 1964).

***Eustrigiphilus speotyto*** EICHLER, 1954; holotype MS No 3907b [m], allotype [f]; La Cumbre, Peru; ex *Speotyto cunicularia juninensis* BERL. & STOLZ.; MNHW No 748; current status: *Strigiphilus desertae* CARRIKER Jr., 1966.

***Falcolipeurus jaczewskii*** ZŁOTORZYCKA, 1963c: 154; holotype MS No 29/G/1 [m], 1 paratype [l]; “Damara”, leg. LÜBERT (holotype), Dönje Erok, Tanzania (paratype); ex *Torgos tracheliotus tracheliotus* (FORST) (museum skin specimen); MNHW No 749; current status: *Falcolipeurus quadripustulatus* (BURMEISTER, 1838).

***Falcolipeurus janiszewskae*** ZŁOTORZYCKA, 1963c: 156; holotype MS No 29/D/1 [m], allotype [f], 11 paratypes [mf]; “Scetel”, Africa (holotype, allotype, 6 paratypes); “Rüttwasteppe”, Africa (3 paratypes), Dire-Daua, Ethiopia (2 paratypes); ex *Trigonoceps occipitalis* (BURCH.) (museum skin specimens); MNHW No 750; current status: *Falcolipeurus suturalis* (RUDOW, 1869).

***Falcolipeurus laboriosus*** ZŁOTORZYCKA, 1963c: 158; holotype MS No 29/H/1 [m], 12 paratypes [mf]; “Ndjiri”, Africa (holotype, 7 paratypes), Jama, Ethiopia (2 paratypes), Danoa, Ethiopia (3 paratypes); ex *Gyps rueppelli rueppelli* (BREHM) (museum skin specimens); MNHW No 751; current status: *Falcolipeurus lineatus* BEDFORD, 1931.



***Falcolipeurus longiphallus*** ZŁOTORZYCKA, 1963c: 159; holotype MS No 29/F/14 [m], allotype [f], 10 paratypes [mfl]; 20 km North Meiktila, Myanmar (holotype, allotype, 7 paratypes), Manila, Philippines (2 paratypes), Nuddeah, ?Bengal (1 paratype); ex *Pseudogyps bengalensis* (GM.) (museum skin specimens); MNHW No 752.

***Furnaricola acutifrons subsimilis*** CARRIKER Jr., 1944a: 87; 2 paratypes [mf]; Fundacion Magdalena, Colombia, leg. CARRIKER Jr.; ex *Certhiaxis cinnamomeus* (GM.); MNHW No 753; current status: *Rallicola acutifrons* (CARRIKER Jr., 1944).

***Hypocrypturellus coniceps boucardi*** CARRIKER Jr., 1944b: 226; 4 paratypes [mf]; Cerro Tuxtla, Mexico, leg. CARRIKER; ex *Crypturellus boucardi boucardi* SCLATER; MNHW No 757; current status: *Kelloggia boucardi* (CARRIKER Jr., 1944).

***Kelloggia brevipes mexicanus*** CARRIKER Jr., 1944b: 218; 4 paratypes [mf]; Tres Zapotes, Veracruz, Mexico, leg. CARRIKER; ex *Tinamus major percautus* VAN TYNE; MNHW No 758; current status: *Kelloggia mexicanus* CARRIKER, Jr., 1944.

***Koeniginirmus caspius certus*** ZŁOTORZYCKA, 1967: 757; holotype MS No 43/n/91 [m]; Mikoszewo, Poland, leg. ZAJĄC; ex *Larus fuscus* L.; MNHW No 759; current status: *Quadriceps caspius* (GIEBEL, 1874).

***Koeniginirmus ornatus alius*** ZŁOTORZYCKA, 1967: 763; holotype MS No 43/m/12 [m], 4 paratypes [mf]; Międzyzdroje, Poland, leg. WOŁK; ex *Larus argentatus* PONT. MNHW No 760; current status: *Quadriceps orantus striolatus* (NITZSCH in GIEBEL (1866)).

***Koeniginirmus ornatus benignus*** ZŁOTORZYCKA, 1967: 764; holotype MS No 43/o/76 [m], 3 paratypes [f]; Pohorčelice, Czech Republic, leg. BALÁT (holotype, 1 paratypes), Mikoszewo, Poland, leg. ZAJĄC (2 paratypes); ex *Larus marinus* PALL.; MNHW No 761; current status: *Quadriceps orantus striolatus* (NITZSCH in GIEBEL (1866)).

***Koeniginirmus punctatus ancillaris*** ZŁOTORZYCKA, 1967: 751; holotype MS No 43/l/10-1 [m], 1 paratype [f]; Krynica Morska, Poland, leg. DĄBROWSKI; ex *Larus canus* L.; MNHW No 762; current status: *Quadriceps punctatus regressus* TIMMERMANN, 1952.

***Koeniginirmus punctatus auctosus*** ZŁOTORZYCKA, 1967: 751; holotype MS No 43/n/92 [m], 2 paratypes [f]; Mikoszewo, Poland, leg. ZAJĄC; ex *Larus fuscus* L.; MNHW No 763; current status: *Quadriceps punctatus regressus* TIMMERMANN, 1952).

***Koeniginirmus punctatus balticus*** ZŁOTORZYCKA, 1967: 752; holotype MS No 43/e/91 [m], 1 paratype [m]; Mikoszewo, Poland, leg. ZAJĄC; ex *Hydropogon caspia* (PALL.); MNHW No 764; current status: *Quadriceps punctatus regressus* TIMMERMANN, 1952).

***Koeniginirmus punctatus ceterus*** ZŁOTORZYCKA, 1967: 752; holotype MS No 43/i/34 [m], 1 paratype [f]; Mikoszewo, Poland, leg. ZAJĄC; ex *Sterna sandvicensis* (LATH.); MNHW No 765; current status: *Quadriceps punctatus regressus* TIMMERMANN, 1952).

***Koeniginirmus punctatus flabilis*** ZŁOTORZYCKA, 1967: 753; holotype MS No 43/g/17 [m]; Mikoszewo, Poland, leg. ZAJĄC; ex *Sterna albifrons* PALL.; MNHW No 766; current status: *Quadriceps punctatus regressus* TIMMERMANN, 1952).

***Mjoberginirmus musealis*** ZŁOTORZYCKA, 1967: 745; holotype MS No 50/F/2 [m]; Zipnarolok, Kola, Russia; ex *Uria troille* L. (museum skin specimen); MNHW No 779; current status: *Quadriceps obliquus* (MJÖBERG, 1910).

*Neodocophorus hopkinsi* EICHLER, 1949: 14; 13 paratypes [mf]; from *Bubo bubo* L.; MNHW No 783; current status: *Strigiphilus strigis* (PONTOPPIDAN, 1763). Remarks: locality missing on the specimen label and in the original description.

*Neodocophorus uralensis* EICHLER, 1949: 15; allotype MS No 290 [m]; Tartumaa, Estonia, leg. VOORE; ex *Strix uralensis litturata* TENGM.; MNHW No 784; current status: *Strigiphilus heterocerus* (GRUBE, 1851).

*Panurinirmus visendus* ZŁOTORZYCKA, 1964b: 270; holotype MS No 9/c/1 [f]; Górki Wschodnie, Poland, leg. ZAJĄC; ex *Panurus biarmicus* (L.); MNHW No 786; current status: *Penenirmus visendus* (ZŁOTORZYCKA, 1964).

*Penenirmus accuratus* ZŁOTORZYCKA, 1964b: 271; holotype MS No 26/H/3 [f]; Goszczowice (= Guschwitz) ad Niemodlin (= Falkenberg), Poland; ex *Dryocopus martius martius* (L.) (museum skin specimen, leg. ZŁOTORZYCKA); MNHW No 787; current status: *Penenirmus heteroscelis* (NITZSCH, 1866).

*Penenirmus silesiacus* ZŁOTORZYCKA, 1964b: 273; holotype MS No 26/e/1 [f], 1 paratype [l]; Ruda Sułowska, Milicz, Poland, leg. ZŁOTORZYCKA; ex *Dryobates medius* (L.); MNHW No 788; current status: *Penenirmus auritus* (SCOPOLI, 1763).

*Picicola contiguus* ZŁOTORZYCKA, 1965: 67; holotype MS No 26/a/10-1 [m], allotype [f], 3 paratypes [f]; Wrocław-Opatowice, Poland, leg. ZŁOTORZYCKA; ex *Picus viridis viridis* L.; MNHW No 789; current status: *Picicola candidus* (NITZSCH, 1866).

*Pleurinirmus affectator* ZŁOTORZYCKA, 1976a: 210; holotype MS No 8/a/10 [f], 3 paratypes [f]; Mierzeja Wiślana, Poland, leg. BUSSE; ex *Sylvia borin borin* (BODD.); MNHW No 790; current status: *Penenirmus affectator* (ZŁOTORZYCKA, 1976).

*Pleurinirmus phylloscopi* ZŁOTORZYCKA, 1976a: 210; holotype MS No 8/h/3 [m], 4 paratypes [mf]; Mierzeja Wiślana, Poland, leg. BUSSE (holotype, 2 paratypes), Finland (2 paratypes); ex *Phylloscopus trochilus trochilus* (L.) (Poland) and *Phylloscopus trochilus acredula* (L.) (Finland); MNHW No 791; current status: *Penenirmus phylloscopi* (ZŁOTORZYCKA, 1976).

*Pleurinirmus rarus* ZŁOTORZYCKA, 1976a: 212; holotype MS No 8/n/9 [m], 2 paratypes [f]; Wyskok, Kętrzyn, Poland, leg. ZŁOTORZYCKA (holotype), Mierzeja Wiślana, Poland, leg. BUSSE (paratypes); ex *Phylloscopus collybita collybita* (VIEILL); MNHW No 792; current status: *Penenirmus rarus* (ZŁOTORZYCKA, 1976).

*Prunellides annae* ZŁOTORZYCKA & EICHLER, 1984: 221; holotype MS No 7/a/71 [m], 1 paratype [f]; Piotrówka- Kępno, Poland, leg. OKULEWICZ; ex *Prunella modularis modularis* (L.); MNHW No 793; current status: *Philoptyerus modularis* (DENNY, 1842).

*Pseudocophorus antennatus* CARRIKER Jr., 1940: 282; 1 paratype [m]; La Cuchilla, Venezuela; ex *Pipreola arcuata* (LAFRESNAYE); MNHW No 794.

*Pseudolipeurus subsimilis soui* CARRIKER Jr., 1953: 219; 1 paratype [m]; Simiti, Colombia; ex *Crypturellus soui cauae* (CHAP.); MNHW No 1134; current status: *Pseudolipeurus dubius* GUIMARÃES, 1942.

*Quadriceps retractus* ZŁOTORZYCKA, 1967: 722; holotype MS No 42/er/1 [m], 1 paratype [f]; Atanasov Lake, Bulgaria, leg. BALÁT; ex *Charadrius alexandrinus* L.; MNHW No 1164; current status: *Quadriceps macrocephalus* (WATERSTON, 1914).

***Rostrinirmus refractariolus*** ZŁOTORZYCKA, 1964b: 277; 1 paratype [f]; Wrocław, Poland, leg. ZŁOTORZYCKA; ex *Passer domesticus domesticus* (L.); MNHW No 798; current status: *Sturnidoecus refractariolus* (ZŁOTORZYCKA, 1964).

***Strigiphilus glaucidii*** ZŁOTORZYCKA, 1974: 337; holotype MS No TBr 413a [m], 3 paratypes [f]; Vesanto, Finland, leg. ALAJA; ex *Glaucidium passerinum passerinum* (L.); MNHW No 799; current status: *Strigiphilus splendens* (GIEBEL, 1874).

***Strigiphilus portigi*** EICHLER, 1952: 154; holotype MS No 3609 c [m], allotype [f]; Erlangen, Germany, leg. STAMMER; ex *Strix aluco aluco* L.; MNHW No 800.

***Sturnidoecus blandus*** ZŁOTORZYCKA, 1964b: 278; holotype MS No 4/o/1 [f]; Górki Wschodnie, Poland, leg. ZŁOTORZYCKA; ex *Carduelis carduelis carduelis* (L.); MNHW No 801.

***Syrrhaptoecus bedfordi*** WATERSTON, 1928: 342; 1 paratype [f]; North Asia; ex *Syrrhaptes paradoxus* (PALLAS); MNHW No 802.

***Trollipeurus eichleri*** ZŁOTORZYCKA, 1963b: 2; 1 paratype [m]; Paraguay; ex *Coryphaps atratus foetens* (LICHT.) (museum skin specimen); MNHW No 804; current status: *Falcolipeurus marginalis* (OSBORN, 1902).

***Trollipeurus kleinmachnowensis*** ZŁOTORZYCKA, 1963b: 4; 2 paratypes [mf]; ex *Vultur gryphus* L. (museum skin specimen); MNHW No 805; current status: *Falcolipeurus assessor* (GIEBEL, 1874).

Family Trichodectidae

***Bovicola orientalis*** EMERSON & PRICE, 1982: 186; 2 paratypes [mf]; Puli, Taiwan; ex *Capricornis crispus swinhoei* GRAY; MNHW No 733; current status: *Damalinia orientalis* (EMERSON & PRICE, 1982).

***Geomydoecus panamensis*** PRICE & EMERSON, 1971: 251; 2 paratypes [mf]; Cerro Punta, Chiriqui, Panama; ex *Macrogeomys cavator* BANGS.; MNHW No 754.

***Suricatoecus fennecus*** EMERSON & PRICE, 1981: 673; 1 paratype [f]; Faiyum, Egypt; ex *Fennecus zerda* (ZIMM.); MNHW No 1133; current status: *Felicola (Suricatoecus) fennecus* (EMERSON & PRICE, 1981).

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